1. A method of storing a structured data document, comprising the steps of:

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- a) flattening the structured data document to provide a plurality of tags, a data entry and a plurality of format characters in a single line; and
- b) storing the plurality of tags, the data entry and the plurality of format characters.

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2. The method of claim 1, wherein step (b) further includes the steps of:

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store.

b1) storing the plurality of tags in a tag and data store;b2) storing the plurality of format characters in a map

- 3. The method of claim 2, further including the steps of:
 - b3) storing the data entry in the tag and data store;
- b4) storing a first pointer in the map store that points to the plurality of tags in the tag and data store;
- b5) storing a second pointer in the map store that points to the data entry in the tag and data store.
- 4. The method of claim 1, wherein step (a) further includes the steps of:
 - al) receiving the structured data document;
 - a2) determining a first data entry;
- a3) placing in a first line a first plurality of open tags proceeding the first data entry and the first data entry;
 - a4) determining a next data entry; and
- a5) placing a next plurality of open tags proceeding the next data entry in a next line.
 - 5. The method of claim 4, further including the steps of:
- a6) repeating steps (a4) and (a5) until a next data entry is not found.

- 6. The method of claim 4, wherein step (a3) further includes the step of:
 - i) placing a format character in the first line.

- 7. The method of claim 4, wherein step (a3) includes the step of:
- i) placing in the first line, a number that indicates a level of a first tag that was opened.
- 8. The method of claim 4, wherein step (a3) includes the step of:
- i) placing in the first line, a number that indicates a number of tags that are consecutively closed after the first data entry.
- 9. The method of claim 4, wherein step (a3) includes the step of:
 - i) placing in a first line, a number that indicates a line number of a parent of a lowest level tag.

- 10. The method of claim 4, wherein step (a3) includes the step of:
- i) placing in the first line, a number that indicates a level of a first tag that was opened but not closed.
 - 11. The method of claim 4, wherein step (a3) includes the step of:
 - i) placing in the first line, a character that indicates a line type.
 - 12. The method of claim 4, wherein step (a3) includes the step of:
 - i) placing in the first line, a character that provides line control information.
 - 13. The method of claim 4, wherein step (a1) further includes the step of:
 - i) receiving an extensible markup language document.

- 14. The method of claim 4, wherein step (a4) further includes the steps of:
- i) determining a format character.
 - 15. The method of claim 4, further including the step of:
 - a6) placing the next data entry in the next line.
 - 16. A method of flattening a structured data document, comprising the steps of:
 - a) receiving the structured data document;
 - b) determining a first data entry; and
 - c) storing in a first line a first plurality of open tags and storing the first data entry.
 - 17. The method of claim 16, further including the steps of:
 - d) determining a level of a first opened tag;
 - e) storing the level of the first opened tag in the first line.

- 18. The method of claim 16, further including the steps of:
- d) determining a number of consecutive tags closed after the first data entry;
 - e) storing the number in the first line.
 - 19. The method of claim 16, further including the steps of:
 - d) storing a line number.
 - 20. The method of claim 16, further including the steps of:
 - d) determining a next data entry;
- e) storing a next plurality of open tags proceeding the next data entry in a next line;
- f) repeating steps (d) and (e) until a next data entry is not found.
- 21. The method of claim 16, wherein step (b) further includes the step of:
 - b1) determining that the first data entry is a null.

- 22. The method of claim 20, wherein step (e) further includes the steps of:
- e1) storing a plurality of format characters associated with the next data entry.
 - 23. The method of claim 20, further including the steps of:
- g) expanding a flattened data document into the structure data document using a plurality of formatting characters.
- 24. A method of storing a structured data document, comprising the steps of:
- a) flattening the structured data document to contain in a single line a tag, a data entry and a formatting character;
 - b) storing the formatting character in a map store; and
 - c) storing the tag and the data entry in a tag and data store.

- 25. The method of claim 24, further including the step of:
- d) storing a first pointer in the map store that points to the tag in the tag and data store;
- e) storing a second pointer in the map store that points to the data entry in the tag and data store.
 - 26. The method of claim 24, further including the step of:
- d) creating a cell in the map store for each of a plurality of lines in a flattened document.
 - 27. The method of claim 26, further including the steps of:
- f) receiving a request to delete one of a plurality of data entries;
- g) determining the cell associated with the one of the plurality of data entries;
 - h) setting a delete flag.
 - 28. The method of claim 27, further including the steps of:
 - i) receiving a restore command;
 - j) unsetting the delete flag.

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- 29. The method of claim 26, further including the steps of:
- f) receiving a request to delete one of a plurality of data entries and a plurality of related tags;
- g) setting a delete flag equal to the number of the plurality of related tags plus one.
 - 30. The method of claim 24, further including the steps of:
 - d) receiving a request to insert a new entry;
 - e) finding a previous cell containing a proceeding data entry;
 - f) storing the new entry at an end of the map store;
 - g) moving a contents of a next cell after the new entry;
- h) storing an insert flag and a pointer to the new entry in the next cell.
 - 30. The method of claim 30, further including the step of:
- i) storing a second insert flag and a second pointer after the contents of the next cell.